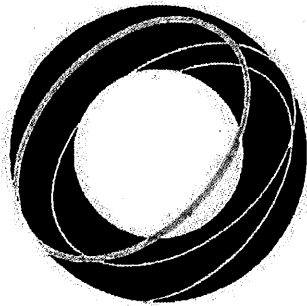


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Halladale - Black Watch Development

Data Management Plan for VIC/RL2(v)

V-9100-95-MP-0002

Rev	Date	Details	By	Check	App
D	21 July 09	Re-issued for use	JPM	T Jessen	
C	15 July 09	Re-issued for use	JPM	T Jessen	
B	19 Feb 09	Issued for Use	C Matthews	T Jessen	
A	27 Jan 09	For Internal Review	C Matthews	T Jessen	

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Halladale - Black Watch Development Data Management Plan for VIC/RL2(v)

1. Introduction

Permit: VIC/RL2(v)

Holders: Origin Energy Resources Ltd (100%)

This Data Management Plan (DMP) is designed to be a "cradle to grave" plan for all foreseeable activities to be undertaken within the title area. However, if the Guidelines for reporting and submission of Petroleum Data are updated, then this DMP will be revised. For other activities not covered in detail in this plan (or in the DMP Guidelines) the Company responsible for the data shall specifically detail information on that activity, as it arises.

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2. Location/Description of Title/Activity area

The following general location information is applicable to Title VIC/RL2(v):

GRATICULAR BLOCKS: 2217 (Part) and 2289 (Part)
STATE: Victoria
BASIN: Otway Basin
AWARDED: 29 September 2008
EXPIRY DATE: 28 September 2013
OPERATOR: Origin Energy Resources Ltd
ABN 66 007 845 338
ADDRESS: 339 Coronation Drive
MILTON QLD 4064
Australia
ACT: Victorian State Petroleum (Submerged Lands) Act 1984 (State)

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3. Specific Requirements of DMP per Victorian State Schedule 4

Item	Regulatory Provisions	Application to this DMP
101	Description of: <ol style="list-style-type: none"> each activity to which DMP relates; each location where activity will be carried out. 	This DMP is designed to be a “cradle to grave” plan for all foreseeable activities to be undertaken within the title area. However, if the Guidelines for reporting and submission of petroleum data are updated then this DMP will be revised. For other activities not covered in detail in this plan (or in the DMP Guidelines) the company responsible for the data shall specifically detail information on that activity, as it arises. Should a change in title type or Guidelines occur, the company shall review this DMP and resubmit a DMP for approval.
102	Description of reports & information, relevant to the activity that will be made and kept.	As detailed throughout this document, relating to the specific activity.
103	Explanation of: <ol style="list-style-type: none"> data to be given to the Designated Authority without request by the Designated Authority; information to be kept. 	<ol style="list-style-type: none"> Data to be submitted - refer to body of document, as pertinent to the associated activity. Data withheld - refer to body of document, as pertinent to the associated activity.
104	Description of media and formats for information, cores, cuttings or samples held.	The information and reports will be submitted in the format and on the media outlined within the body of the document, as pertinent to the associated activity.
105	Explanation of how media and formats in item 104: <ol style="list-style-type: none"> are appropriate for type & volume of data collected; comply with Designated Authority requirements; comply with good industry practice. 	Data medias and formats are described within the body of the document and these all comply with the P(SL)A Guidelines for Data Submission version 6.2 (the Guidelines) in respect of the Victorian State Petroleum (Submerged Lands) (Data Management) Regulations 2004 (State) (the Regulations) .
106	Undertake to allow access to data that is publicly available and explain how access will be allowed.	The operator acknowledges that, upon notification by the Designated Authority, it will allow reasonable access to any publicly available information or samples under its control.
107	Describe arrangements that ensure information is preserved according to good archive practice.	Data preservation will be ensured via contracts covering data services in addition to in-house data management practice.

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108	Issue a statement that reports & information will be given according to: <ul style="list-style-type: none"> a. the timetable outlined in Part 2 of the Schedule; or b. a timetable proposed in the DMP. 	The timing of submission of data that will be made/collected during the period of the DMP is outlined within the body of the document, as pertinent to the associated activity.
109	Summary of: <ul style="list-style-type: none"> a. data management performance objectives against which performance will be measured; & b. measurement criteria that define the objectives. 	Data and reports will be submitted on time and in accordance with Guidelines (see item 105). Archival and Environment conditions will comply with the Guidelines (see item 105).
110	Explain how the measurement criteria will confirm that the performance objectives have been met.	Submissions timetable will be monitored in-house. Storage handling conditions will be controlled via contracts for data services.
111	Summary of arrangements for: <ul style="list-style-type: none"> a. secure storage of documents and records at a nominated address. b. maintenance of documents and records in a way that makes retrieval of documents etc practicable. 	Information and reports will be stored at the nominated address in a secure data storage room prior to being submitted to the Designated Authority as per the aforementioned timetable. The storage of data will meet the good digital archival principles as set out in the "Guidelines for reporting and submission of petroleum data" and recommended by the Australian Archives.
112	Acknowledge responsibility for collection, storage, and submission of information, cores, cuttings & samples obtained until all have been submitted to the Designated Authority.	The Operator acknowledges responsibility for collection, storage, and submission of information, cores, cuttings & samples obtained until all have been submitted to the Designated Authority.
113	Any other information that is necessary to demonstrate that the DMP complies with the Regulations.	As required, for specific instances.

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4. Activity

4.1 2D Seismic Acquisition & Processing

4.1.1 General Information (Regulation 510)

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application.
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly - see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report. Maps.

4.1.2 Written Information and Documentation (Regulation 512)

The following written information and documents about each survey will be prepared as part of the activity, as appropriate/applicable:

	Description
a	Field and processed digital survey data.
b	A report describing the acquisition and processing of the data.
c	Navigation data.
d	Interpretation report.

4.1.2.1 Reporting - Weekly Progress reports (Victorian State Schedule 4, Part 2, item 202)

The following information will be submitted as soon as practicable after the end of the week to which the report relates:

- Report on survey operations during the week.

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4.1.3 Data Submission and Reporting Tables

2D Seismic Survey - Acquisition and Processing Data Plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State	Commonwealth			
Field Data					
Navigation data, Includes final processed navigation, elevation and bathymetry data	1 copy	NA	UKOOA	12 months after completion of the survey	P1/90 or subsequent format with header information of navigation / shotpoint location data including elevations or bathymetry. Header data must include geodetic datum, spheroid, projection and clearly stated transformation parameters.
Raw Navigation data	Transfer Proposal (TP) to be forwarded by DA	NA	UKOOA	12 months after completion of the survey	P2/94 or subsequent format.
Seismic field data	Transfer Proposal (TP) to be forwarded by DA	NA	SEG Standard	12 months after completion of the survey	
Seismic support data	Transfer Proposal (TP) to be forwarded by DA	NA	PDF	12 months after completion of the survey	Observer's logs.
Itemised field tape listing	1 copy	NA	Digital (ASCII)	12 months after completion of the survey	Field data showing tape number, survey name, line number, shotpoint range, data type.
Processed Data					
Raw and final stacked data, near/mid/far sub-stacks - if generated	1 copy	NA	SEG-Y	12 months after completion of acquisition	Includes fully annotated EBCDIC header.
Raw and final migrated data including PSDM/PSTM, near/mid/far sub-stacks - if generated	1 copy	NA	SEG-Y	12 months after completion of acquisition	Includes fully annotated EBCDIC header.
Shotpoint to CDP relationship	1 copy	NA	ASCII	12 months after completion of acquisition	Sufficient SP/CDP data for workstation interpretation. At least SOL and EOL relationships for each line and a listing of equivalent CDP/SP pairs for each line.

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Data to be submitted	Copies required by		Format	Data due date	Remarks
	State	Commonwealth			
Itemised process tape listing	1 copy	NA	ASCII	12 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range, data type.
Velocity data	1 copy	NA	ASCII (Western Format)	12 months after completion of acquisition	Including line number, shotpoint, time versus RMS pairs for both stacked and migrated velocities.
Final Reports					
Final report (operations and navigation)	1 copy	NA	PDF	12 months after completion of acquisition	Location map included. Onboard processing and any retained outputs to be documented in report.
Final processing report	1 copy	NA	PDF	12 months after completion of acquisition	To include sample print out of SEG Y EBCDIC header.
Final interpretation report	1 copy	NA	PDF	18 months after completion of acquisition	
Digital images of interpretation maps	1 copy	NA	TIFF	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Geo-referenced TIF images.

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4.2 3D Seismic Acquisition & Processing

4.2.1 General Information (Regulation 510)

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application.
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly - see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report. Maps.

4.2.2 Written Information and Documentation (Regulation 512)

The following written information and documents about each survey will be prepared as part of the activity, as appropriate/applicable:

	Description
a	Field and processed digital survey data.
b	A report describing the acquisition and processing of the data.
c	Navigation data.
d	Interpretation report.

4.2.3 Reporting - Weekly Progress reports (Victorian State Schedule 4, Part 2, item 206)

Will be submitted as soon as practicable after the end of the week to which the report relates:

- Report on survey operations during the week.

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4.2.4 Data Submission and Reporting Tables

3D Seismic Survey - acquisition and processing data plan

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Data Management Plan for VIC/RL2(v)**

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Field Data					
Final Processed Navigation data Includes elevation and bathymetry data	Transfer Proposal (TP) to be forwarded by DA	NA	UKOOA	18 months after completion of acquisition	All associated data sufficient to re-process seismic data including shot and receiver coordinates.
Raw Navigation data	Transfer Proposal (TP) to be forwarded by DA	NA	UKOOA	18 months after completion of acquisition	PZ/94 or subsequent format.
Seismic field data	Transfer Proposal (TP) to be forwarded by DA	NA	SEG Standard	18 months after completion of acquisition	To be submitted on high density media
Seismic support data	Transfer Proposal (TP) to be forwarded by DA	NA	PDF	18 months after completion of acquisition	Observer's logs.
Itemised field tape listing	1 copy only to be submitted to State DA	NA	ASCII	18 months after completion of acquisition	Showing tape number, survey name, line number, shotpoint range, data type in ASCII format.
Processed Data					
Raw and final stacked data, near/mid/far sub-stacks - if generated	Transfer Proposal (TP) to be forwarded by DA	NA	SEG-Y	18 months after completion of acquisition	Includes fully annotated EBDCDIC header.
Raw and final migrated data including PSDM/PSTM, near/mid/far sub-stacks - if generated	1 copy	NA	SEG-Y	18 months after completion of acquisition	Includes fully annotated EBDCDIC header.
Final processed (grid) bin coordinates	1 copy	NA	UKOOA 3D binning grids	18 months after completion of acquisition	P1/90
Polygonal position data (Full Fold Outline)	1 copy	NA	UKOOA	18 months after completion of acquisition	Listing major inflection points of a polygon describing the location of the survey providing survey name, polygon point, inline/crossline nomenclature, latitude and longitude. (P6/98 format)
Velocity data	1 copy	NA	ASCII (Western Format)	18 months after completion of acquisition	Including bin number and time versus RMS velocity pair for both stacked and migrated velocities.

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Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
2D data subset (non-exclusive surveys)	1 copy	NA	Media to comply with Guidelines SEG-Y	18 months after completion of acquisition	Final migrated data.
Itemised process tape listing	1 copy	NA	ASCII	18 months after completion of acquisition	Showing tape number, survey name, in-lines and crosslines, cdps, data type.
Final Reports					
Final report (operations and navigation)	1 copy	NA	PDF	18 months after completion of acquisition	Location map included. Operations and Navigation Reports can be supplied as separate volumes. Onboard processing and any retained outputs to be documented in report.
Final processing report including grid definition	1 copy	NA	PDF	18 months after completion of acquisition	To include sample print out of SEG-Y EBCDIC header, 3D grid definition details used for loading SEG-Y into interpretation work stations.
Final interpretation report	1 copy	NA	PDF	18 months after completion of acquisition	
Digital images of interpretation maps	1 copy	NA	TIFF	18 months after completion of acquisition	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Geo-referenced TIF images.

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4.3 2D & 3D Seismic Reprocessing

4.3.1 General Information (Regulation 510)

The following information is applicable to the activity:

a	i	Location of the activity.	See Proposal.
	ii	Period of the activity.	See Proposal.
b		Persons undertaking activity.	See Proposal.
c	i	The techniques and equipment used to collect the data.	See Proposal.
	ii	The techniques and equipment used to process the data.	See Proposal.
	iii	The techniques and equipment used to interpret the data.	See Proposal.
d		Data processing report.	Data processing report.
e		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report. Maps.

4.3.2 Written Information and Documentation (Regulation 512)

The following written information and documents about each survey will be prepared as part of the activity, as appropriate/applicable:

	Description
a	A report describing the processing of the data.
b	Interpretation report.

4.3.3 Reporting (Victorian State Schedule 4, Part 2, item 202)

Will be submitted within 12 months of completion of the project:

- Report on project at project closeout.

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4.3.4 Data Submission and Reporting Tables 2D & 3D seismic reprocessing data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Processed Data					
Raw and final stacked data, near/mid/far sub-stacks - if generated	1 copy	NA	SEG-Y	Not later than the end of the title year in which the information was created.	Outputs must be in formats as specified in sections 4.1.3 and Error! Reference source not found..
Raw and final migrated data including PSDM/PSTM (2D and 3D), near/mid/far sub-stacks - if generated	1 copy	NA	SEG-Y	Not later than the end of the title year in which the information was created.	Outputs must be in formats as specified in sections 4.1.3 and Error! Reference source not found..
Final processed (grid) bin coordinates	1 copy	NA	UKOOA 3D binning grids	Not later than the end of the title year in which the information was created.	TO be completed using UKOOA.
Polygonal positions for 3D data (Full Fold Outline for offshore; Full Fold Outline and Surface Outline for onshore)	1 copy	NA	UKOOA	Not later than the end of the title year in which the information was created.	Listing major inflection points of a polygon describing the location of the survey providing survey name, polygon point, inline/crossline nomenclature, latitude and longitude (P6/98 format).
Itemised tape listing	1 copy	NA	ASCII	Not later than the end of the title year in which the information was created.	Showing the tape number, survey name, line number, shotpoint, data-type and what original tapes are on the copy tapes.
Velocity data	1 copy	NA	ASCII (Western Format)	Not later than the end of the title year in which the information was created.	Include line number, shotpoint, Time versus RMS pairs for both stacked and migrated velocities.
Final Reports					
Final report (Reprocessing)	1 copy	NA	PDF	12 months after the end of permit year in which processing was completed	Outputs must be in formats as specified in sections 4.1.3 and Error! Reference source not found..

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Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Final report (Interpretive)	1 copy	NA	PDF	12 months after the end of permit year in which processing was completed	Geo-referenced TIF to include TWT structure maps at key horizons and representative sections showing seismic horizon picks.
Digital images of interpretation maps	1 copy	NA	TIFF	12 months after completion of processing	These include TWT structure maps at key horizons and representative sections showing seismic horizon picks as Georeferenced TIF images.

Data to be supplied if the conditions of borrowing data from archives include transcription of field data to high-density media

Archive data transcription plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth			
Field tape transcription log	1 copy	NA	ASCII	3 months after completion of processing of data	Showing the original tape number, new tape number, survey name, line number, shotpoint range, data type, transcription parameters
Seismic field tape copies	1 copy	NA	SEG	3 months after completion of processing of data	

3D seismic specific reprocessing data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	States/Territory	Commonwealth			
Final processed grid (bin) coordinates (for 3D seismic)	1 copy	NA	UKOOA 3D Binning Grids	3 months after completion of processing of data	To be completed using UKOOA P6/98 format

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4.4 Gravity, Magnetic and Other Survey Data

4.4.1 General Information (Regulation 510)

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application.
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly for field data At project closeout - see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report. Maps.

4.4.2 Written Information and Documentation (Regulation 512)

The following written information and documents about each survey will be prepared as part of the activity: The information will include, if appropriate/applicable:

	Description
a	Field and processed digital survey data.
b	A report describing the acquisition and processing of the data.
c	Interpretation report.

4.4.3 Weekly Progress reports (Victorian State Schedule 4, Part 2, item 206)

The following information will be submitted as soon as practicable after the end of the week to which the report relates:

- Report on survey operations during the week.

A report will be submitted within 12 months of completion of the project:

- Final survey report on project at project closeout.

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4.4.4 Data Submission and Reporting Tables

Gravity, magnetic and other survey data plan

**Halladale - Black Watch Development
Data Management Plan for VIC/RL2(v)**

Data to be submitted		Copies required by		Format	Data due date	Remarks
		State/Territory	Commonwealth	Media to comply with Guidelines		
Field Data						
Aeromagnetic located field data	1 copy	NA	NA	ASCII (columns)	6 months after completion of acquisition	Must include: descriptive headers, flight number, line number, date and time, fiducial, raw magnetic reading, processed magnetic reading, radar and GPS or barometric altimeter, and base station reading. All coordinate data must also include clearly stated datum, spheroid and projection also clearly stated transformation parameters if not in same coordinate system as was acquired in the field.
Gravity field data	1 copy	NA	NA	ASCII (columns)	6 months after completion of acquisition	Including raw loop data, raw elevations plus measurement times and dates. All coordinate data must also include clearly stated datum, spheroid and projection, clearly stated transformation parameters if not in same coordinate system as was acquired in the field. All elevation values must be AHD.
Altimeter, storm monitor, etc. (aeromagnetic only)	1 copy	NA	NA	ASCII (appropriate format)	6 months after completion of acquisition	One copy of analog monitor records, diurnal records and altimeter records in an appropriate format.
Other types of surveys	See remarks	NA	NA	See remarks	See remarks	Submission and format details to be negotiated with the Designated Authority
Processed Data						
Aeromagnetic processed data	1 copy	NA	NA	ASCII GDF2	6 months after completion of acquisition	Including pre and post microlevelling data. All coordinate data must also include clearly stated datum, spheroid and projection also clearly stated transformation parameters if not in same coordinate system as acquired in the field.

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Data to be submitted		Copies required by		Format	Data due date	Remarks
State/Territory	Commonwealth	State/Territory	Commonwealth			
Gravity processed data	1 copy	NA	NA	Media to comply with Guidelines ASCII GDF2	6 months after completion of acquisition	Data must include: descriptive headers, station, XY lat/long coordinates, meter reading, observed gravity value, elevation value calculation errors, final processed gravity value. All coordinate data must also include clearly stated datum, spheroid and projection, also clearly stated transformation parameters if not in same coordinate system as acquired in the field. All elevation values must be AHD.
Geophysical images	1 copy	NA	NA	PDF	6 months after completion of acquisition	
Final Reports						
Final report (operations, navigation and processing)	1 copy	NA	NA	PDF	6 months after completion of acquisition	Must include location map and flight line map. Aeromagnetic surveys: Including aircraft and survey equipment details and specifications, flight line directions and terrain clearance, line spacing, total line kilometres. Gravity surveys: Including meter type, scale factor for meter. Data must be tied to an Isogal station in the Australian Fundamental Gravity Network. Processing report must include company details and processing parameters.
Final interpretation report	1 copy	NA	NA	PDF	6 months after completion of acquisition	
Digital images of interpretation maps	1 copy	NA	NA	PDF	6 months after completion of acquisition	These include any maps included in the Interpretation report as separate Georeferenced TIF images.

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4.5 Wells

4.5.1 General Information (Regulation 510)

The following written information and documents will be prepared as part of the activity:

a	i	Location of the activity.	See Well Program.
	ii	Period of the activity.	See Well Program.
b		Persons undertaking activity.	See Well Program.
c	i	The techniques and equipment used to collect the data.	See Well Program.
	ii	The techniques and equipment used to process the data.	See Well Program.
	iii	The techniques and equipment used to interpret the data.	See Well Program.
d		Progress reports.	Reporting requirements Daily.
e		Data acquisition report detailing the operations carried out as part of the activity.	Well completion report (Basic Data).
f		If processing is undertaken as part of the activity - a data processing report.	Well completion report (Basic Data).
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Well completion report (Interpretive Data). Maps.

4.5.2 Written Information and Documentation (Regulation 511)

The following written information and documents about each well will be prepared as part of the activity:

	Description
a	Field and processed digital log data.
b	Display of logs generated.
c	Mud log display.
d	Digital mud logging data.
e	Down hole survey data
f	Report of the purpose, operation and progress of the well.
g	Photographs of the well core.
h	A well completion report.

Description

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The information will also include, if appropriate/applicable & not required for ongoing studies:

	Description
a	Cores, core cuttings and fluid samples.
b	Sample slides.
c	Residues.

4.5.3 Reporting - Daily Drill reports (Schedule 4, Part 2, item 206)

One email copy will be submitted to the Designated Authority no later than midday on the day after the day to which the report relates:

a	Name of well.
b	Drilled depth.
c	Work carried out.
d	Lithology of formations penetrated.
e	Any indications of petroleum.
f	Results of surveys made in the well bore.
g	A leak off test summary.
h	Hole geometry.
i	Summary of material usage.
j	Estimated daily and cumulative well costs.

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4.5.4 Data Submission and Reporting Tables

Well data plan (Documentary information)

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Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Field and processed digital data					
Edited field data and processed data for all wireline logs, MWD or LWD tools. Includes well test raw data	1 copy	NA	LIS, DLIS, LAS	6 months after completion of the well	With verification listing of the data supplied. The data shall include full header information.
Edited field and processed data for borehole deviation surveys.	1 copy	NA	LIS, DLIS, ASCII, LAS, XLS	6 months after completion of the well	The data shall include full header information.
Interpretative log analysis	1 copy	NA	LIS, DLIS, ASCII, LAS, XLS	12 months after completion of the well	The data shall include full header information.
Mud logging data	1 copy	NA	ASCII, LAS	6 months after completion of the well	With a header giving field names, curve names and units of measure.
Velocity surveys: <ul style="list-style-type: none"> ■ Raw ■ Processed ■ Checkshot and time/depth analysis 	1 copy	NA	DLIS, SEGY, ASCII (Checkshot data)	6 months after completion of the well	To include verification header file.
Core, side wall core natural light photography - UV light to be done in fluorescent sections	1 copy	NA	JPEG, PNG or TIFF	6 months after completion of the well	Provide minimum 300 DPI image in 24-bit colour. High-resolution images able to be magnified (zoom in) without pixilation.
Samples					
Ditch cuttings	1 set	NA		6 months after completion of the well	A minimum of 200g dry weight per sample interval set and thoroughly cleaned, dried and suitably packaged with indeible printing of well name, depth ranges.
Full hole conventional cores (if cut)	2/3 slab	NA		After 1 year or as agreed	Fresh core is NOT to be slabbbed vertically

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Data to be submitted		Copies required by		Format	Data due date	Remarks
State/Territory	Commonwealth	Media to comply with Guidelines				
Gasous hydrocarbon samples (in an API approved safety container)	GA to advise DA of receipt	To be submitted to GA			On completion of test	If collected from wireline, drill stem or production tests. Consultation with GA recommended (300 cc if available).
Fluid hydrocarbon samples (in an API approved safety container)	GA to advise DA of receipt	To be submitted to GA			6 months after completion of the well or after collection of sample	If collected from wireline, drill stem or production tests. Consultation with GA recommended (1 ltr if available).
Sidewall core material (if recovered)	1 set	NA			12 months after completion of the well	
Palynological slides and residues	1 set	NA			12 months after completion of the well	If prepared.
Palaeontological material						
Petrological slides						
Reports and images (Digital format preferred for all lodgements)						
Well Completion Report - separated into:						
Documentary data	1 copy	NA		PDF	6 months after completion of the well	Security free basic and interpretive volumes must be separated, image files and logs included in reports must be submitted as separate JPEG or TIF files.
Derivative data	1 copy	NA		PDF	12 months after completion of the well	Interpretive volume to include composite well log.
Wireline Log displays	1 copy	NA		PDS/META/PDF	6 months after completion of the well	Software to be provided. Continuous page at a readable scale.
Mudlog	1 copy	NA		TIFF/PDF	6 months after completion of the well	Continuous page at a readable scale.
Well index sheet	1 copy	NA		PDF	12 months after completion of the well	Example to be provided.
Petrophysical, geochemical or other sample analyses	1 copy	NA		ASCII/XLS	12 months after completion of the well	As a tab delimited ASCII file with metadata included.
Composite well log	1 copy	NA		TIFF/JPEG	12 months after completion of the well	

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Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Velocity log displays	1 copy	NA	Media to comply with Guidelines TIFF/JPEG	6 months after completion of the well	

^ for Victoria only:

DPI (Victorian Designated Authority) require that companies submitting palynological/biostratigraphic slides make sure that they

1. obtain a valid range of Museum of Victoria unique "P" catalogue numbers from the Melbourne Museum
2. label the palynological slides with these P numbers, preferably on the slide itself rather than on a sticker
3. catalogue these slides and submit to DPI a catalogue of the slides showing things like
 - i. P Number
 - ii. well name
 - iii. sample type (core/cutt/swc)
 - iv. depth
 - v. depth range
 - vi. slide type (e.g. kerogen etc)
 - vii. other descriptive details
 - viii. remarks
4. submit a full biostratigraphic report to DPI

The slides and other material should be submitted to DPI, but the P number ranges to use can be obtained from the Museum:

Dermot Henry, Senior Collection Manager, Geosciences Group, Museum Victoria

dhenry@museum.vic.gov.au

+61 3 8341 7777

11 Nicholson St, Carlton, Victoria 3053

www.museum.vic.gov.au

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4.6 Geological and geochemical surveys

4.6.1 General Information (Regulation 510)

The following information is applicable to the activity:

a	i	Location of the activity.	See Survey Application.
	ii	Period of the activity.	See Survey Application.
b		Persons undertaking activity.	See Survey Application.
c	i	The techniques and equipment used to collect the data.	See Survey Application.
	ii	The techniques and equipment used to process the data.	See Survey Application.
	iii	The techniques and equipment used to interpret the data.	See Survey Application.
d		Progress reports.	Reporting requirements Weekly for field data At project closeout - see below.
e		Data acquisition report detailing the operations carried out as part of the activity.	Data acquisition report.
f		If processing is undertaken as part of the activity - a data processing report.	Data processing report.
g		If interpretation is undertaken as part of the activity - the interpretation, including maps.	Interpretation report. Maps.

4.6.2 Written Information and Documentation (Regulation 513)

The following written information and documents about each survey will be prepared as part of the activity: The information will include, if appropriate/applicable:

	Description
a	Field and processed digital survey data.
b	A report describing the acquisition and processing of the data, as appropriate/applicable.
c	Interpretation report.

4.6.3 Reporting (Victorian State Schedule 4, Part 2, item 206)

The following information will be submitted as soon as practicable after the end of the week to which the report relates:

- Report on survey operations during the week.

A report will be submitted within 12 months of completion of the project:

- Final survey report on project at project closeout.

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4.6.4 Data Submission and Reporting Tables

Geological and geochemical surveys data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Data Review Reports	1 copy	NA	Media to comply with Guidelines PDF	6 months after completion of study year	
Digital images of interpretation maps	1 copy	NA	TIFF	6 months after completion of study year	

+ Only required for areas under Commonwealth jurisdiction

Studies done on cores and cuttings

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Reports and data from investigation, analysis, etc of cuttings or cores Including PVT reports, Petrophysical reports, biostratigraphic reports	1 copy	NA	Media to comply with Guidelines Report: PDF Data: ASCII	6 months after borrowing of material	
Annual report for exported samples for analyses	1 copy	NA	Report: PDF Data: ASCII	Annually from date of export	Required if cuttings and cores are retained overseas for more than twelve months after the approval from the Designated Authority.

+ Only required for areas under Commonwealth jurisdiction

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4.7 Studies and Data Reviews as meeting Title Work Commitment

4.7.1 General Information (Regulation 510)

The following information is applicable to the activity:

a	i	Purpose of the activity.	See Activity Description.
	ii	Location & period of the activity.	See Activity Description.
b		Persons undertaking activity.	See Activity Description.
c		The techniques and equipment used to interpret the data.	See Activity Description.
d		Progress reports.	Reporting requirements At project closeout - see below.

4.7.2 Written Information and Documentation (Regulation 513)

The following written information and documents will be prepared as part of the activity:

The information will include, if appropriate/applicable:

	Description
a	Digital data.
b	A report describing studies and/or data reviews.

4.7.3 Reporting (Victorian State Schedule 4, Part 2, item 206)

Will be submitted within 12 months of completion of the project:

- Final survey report on project at project closeout.

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4.7.4 Data Submission and Reporting Tables

Studies and Data Reviews data plan

Data to be submitted	Copies required by		Format	Data due date	Remarks
	State/Territory	Commonwealth			
Review Reports	1 copy	NA	Media to comply with Guidelines PDF	6 months after completion of the study year	Submitted in CD ROM or DVD format
Digital images of interpretation maps	1 copy	NA	TIFF	6 months after completion of the study year	Submitted in CD ROM or DVD format, including prospects and leads maps.

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4.8 Reports to be submitted (as appropriate, based on type of title)

4.8.1 *Annual Report - Exploration Permit (Victorian State Schedule 4, Part 2, item 205)*

Two copies of the report will be submitted to the Designated Authority not later than one month after the period to which the report covers.

a	Description of exploration carried out.
b	Conclusion derived from the exploration.
c	List of reports that have been submitted during the year.
d	Outline of planned operations for the next year.
e	If appropriate/applicable - updated interpretation maps.
f	Summary of exploration expenditure for the year.

4.8.2 *Annual Report - Retention Lease (Victorian State Schedule 4, Part 2, item 205)*

Two copies of the report will be submitted to the Designated Authority not later than one month after the period to which the report covers.

a	Description of activities carried out.
b	Conclusion derived from the activities.
c	List of reports that have been submitted during the year.
d	Outline of planned operations for the next year.
e	If appropriate/applicable - updated interpretation maps.
f	Summary of expenditure for the year.

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4.8.3 Annual Report - Production Licence (Victorian State Schedule 4, Part 2, item 205)

Two copies of the report will be submitted to the Designated Authority not later than one month after the period to which the report covers.

a	Description of activities carried out.
b	Conclusion derived from the activities.
c	List of reports that have been submitted during the year.
d	Outline of planned operations for the next year.
e	If appropriate/applicable - updated interpretation maps.
f	Summary of expenditure for the year.

4.8.4 Quarterly Reports - Exploration Permits (Victorian State Schedule 4, Part 2, item 204)

The report covers exploration activities for the three month period after the day on which the Title was awarded, and will be submitted not later than one month after the period to which the report covers.

No report will be submitted for the fourth quarter if relevant information is included in the annual report as per Schedule 4, Part 2, item 205.

Two copies of the report will be given to the Designated Authority.

a	Description of exploration carried out.
b	Outline of geological & geophysical interpretations made as a result of exploration, including any reprocessing or re-interpretation of basic data.
c	An estimate of exploration expenditure for the quarter.
d	Any other information required by the accepted Designated Authority.
e	List of reports that have been submitted during the quarter.

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4.8.5 Monthly reports - Production License (Victorian State Schedule 4, Part 2, item 203)

Two copies will be submitted to the Designated Authority by 15th of month after the month to which the report relates. Monthly Production Reports will include:

a		For each well:
	i	Identification name and number.
	ii	Summary of all work performed on each well in the licence area during the previous month.
	iii	Results of production tests, including choke sizes used and tubing and separation pressures observed during the test, and shut in well head pressure, if well was shut in for any reason during the month.
	iv	Status at the end of the month.
	v	Number of days of production.
	vi	Cumulative quantities of liquid and gaseous petroleum and water produced or injected as at the end of the month.
b		Total estimated quantities of liquid and gaseous petroleum and water produced or injected during the month.
c		The total quantities of:
	i	Liquid & gaseous petroleum and water that have been produced.
	ii	Liquid and gaseous petroleum that have been used.
	iii	Gaseous petroleum that has been flared or vented.
	iv	Liquid and gaseous petroleum and water that have been injected.
	v	Liquid petroleum that has been stored.
	vi	Liquid and gaseous petroleum that have been delivered from the area.
d		Estimates of average reservoir pressure per reservoir.

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